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IRA REMSEN

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12 II.

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12 V.

$C_{12}H_{12}O_4N_2S_2Mg$. Magnesium benzenesulphonamide. *Franklin* and *Stafford*. 105

C_{13}-GROUP.

13 II.

$C_{13}H_{28}$. Tridecane from petroleum. *Mabery*..... 170

13 III.

$C_{13}H_{27}Cl$. Monochlortridecane. *Mabery*..... 171

13 III.

$C_{13}H_{10}ON_2$. Benzeneazobenzaldehyde. *Alway*..... 47
$C_{13}H_{10}O_4N_2$. Nitro-4-nitro-3′-methylphenyl ether. *Cook* and *Frary*..... 489
$C_{13}H_{11}O_3N_3$. Hydrazone of *β-*nitrobenzaldehyde. *Alway*..... 45
$C_{13}H_{11}O_3N$. 4-Nitro-3′-methylphenyl ether. *Cook* and *Frary*..... 486
$C_{13}H_{13}ON$. 4-Amido-3′-methylphenyl ether. *Cook* and *Frary* 489
$C_{13}H_{14}O_4N_2$. Hydronitrate of 4-amido-3′-methylphenyl ether. *Cook* and *Frary* 489
$C_{13}H_{15}O_4N$. Dimethylester of *β-β-*nitrophenylglutaric acid. *Avery* and *Beans*. 58

$C_{12}H_{16}O_5N_2$. Ethyl α-phenyloxydiazomalonate. *Curtiss*..... 315
$C_{12}H_{17}O_4N$. Ethyl anilinomalonate. *Curtiss*..... 315
$C_{12}H_{19}O_5N_2$. Ammonium salt of ethyl α-phenyloxydiazomalonate. *Curtiss*.... 321

13 IV.

$C_{13}H_{14}ONCl$. Hydrochloride of 4-amido-3'-methylphenyl ether. *Cook* and *Frary* 488
$C_{13}H_{11}O_6NS$. Sulphonic acid of 4-nitro-3'-methylphenyl ether. *Cook* and *Frary* 487
$C_{13}H_{12}O_3N_2S$. Diacetylphenylpseudothiohydantoïn. *Wheeler* and *Johnson*.... 146
$C_{13}H_{15}O_5N_2Na$. Sodium salt of ethyl α-phenyloxydiazomalonate. *Curtiss*..... 319
$C_{13}H_{15}O_5N_2K$. Potassium salt of ethyl α-phenyloxydiazomalonate. *Curtiss*.... 321

C_{14}-GROUP.

$C_{14}H_{30}$. Tetradecane. *Mabery*..... 171

14 II.

$C_{14}H_{24}O_5$. Diethyl ester of hydroxycamphoric acid. *Noyes* and *Warren*..... 481
$C_{14}H_{29}Cl$. Monochlortetradecane. *Mabery*..... 172

14 III.

$C_{14}H_9O_4N_3$. Nitro-*p*-azoxybenzaldehyde. *Alway*..... 43
$C_{14}H_{10}O_3N_2$. *p*-Azoxybenzaldehyde. *Alway*..... 34
$C_{14}H_{10}O_3N_2$. *Alway*..... 39
Formed by reduction of *p*-nitrobenzaldehyde.
$C_{14}H_{10}O_3N_2$. *p*-Azoxybenzoic acid. *Alway*..... 40
$C_{14}H_{12}O_3N_2$. *p*-Nitrosodimethylaniline picrate. *Torrey*..... 119

14 IV.

$C_{14}H_{10}ON_2Cl_4$. *p*-Azoxybenzal chloride. *Alway*..... 44
$C_{14}H_{10}O_3N_2$. *m*- and *p*-Azoxybenzaldehyde *Alway*.....476, 479
$C_{14}H_{10}O_3N_2$. Oxyazobenzaldehyde. *Alway*..... 476
$C_{14}H_{10}O_4N_2$. *N-m*-Formylphenyl ether of *m*-nitrobenzaldoxime. *Alway*..... 477
$C_{14}H_{14}O_3N_2S$. Diacetyl-*o*- and *p*-tolylpseudothiohydantoïn. *Wheeler* and *Johnson*.....150, 152

C_{15}-GROUP.

$C_{15}H_{32}$. Pentadecane. *Mabery*..... 173

15 II.

$C_{15}H_{30}Cl_2$. Dichlorpentadecane. *Mabery*..... 174

15 III.

$C_{15}H_{18}O_4N_2$. Acetyl derivative of ethyl α-phenyloxydiazomalonate. *Curtiss*.. 323

C_{16}-GROUP.

$C_{16}H_{34}$. Hexadecane. *Mabery*..... 174

16 II.

$C_{16}H_{32}Cl_2$. Dichlorhexadecane. *Mabery*..... 175

16 III.

$C_{16}H_{20}ON_4$. Tetramethyldiamidoazoxybenzene. *Torrey*..... 117

16 IV.

$C_{16}H_{16}O_3NS$. Benzoylthioglycoll-*o*-toluide. *Wheeler* and *Johnson*..... 148

16 V.

$C_{16}H_{22}O_2N_4Cl_4Pt$. *p*-Nitrosodimethylaniline chlorplatinate. *Torrey*..... 115

C_{17}-GROUP.

$C_{17}H_{36}$. Heptadecane. *Mabery*..... 176

17 II.

$C_{17}H_{35}Cl$. Monochlorheptadecane. *Mabery*..... 177

17 III.

$C_{17}H_{14}O_4N_2$. *β-p*-Nitrophenylglutaranil. *Avery* and *Beans*..... 59
$C_{17}H_{16}O_5N_2$. *β-m-* and *p*-Nitroglutaranilic acid. *Avery, Gere,* and *Beans*..... 54, 58

17 IV.

$C_{17}H_{15}O_5N_2Ag$. Silver salt of *β-m-* and *p*-nitrophenylglutaranilic acid. *Avery, Gere,* and *Beans* 54, 58

C_{18}-GROUP.

$C_{18}H_{38}$. Liquid hydrocarbon from petroleum. *Mabery*..... 179
$C_{18}H_{38}$. Octodecane. *Mabery*..... 177

18 II.

$C_{18}H_{16}O_4$. α-Truxillic acid. *Kohler*..... 235
$C_{18}H_{37}Cl$. Monochloroctodecane. *Mabery*..... 178

18 III.

$C_{18}H_{17}O_2N$. *β-p*-Tolylglutaranil. *Avery* and *Parmelee*..... 51
$C_{18}H_{19}O_5N$. *β-p*-Tolylglutaranilic acid. *Avery* and *Parmelee*..... 51
$C_{18}H_{22}O_2N_4$. Di-*p*-nitrosodimethylanilineethylene. *Torrey*..... 113

18 IV.

$C_{18}H_{18}O_5NAg$. Silver salt of *β-p*-tolylglutaranilic acid. *Avery* and *Parmelee*... 51

C_{19}-GROUP.

$C_{19}H_{38}$. Liquid hydrocarbon from petroleum. *Mabery*..... 182
$C_{19}H_{40}$. Nonodecane. *Mabery*..... 181

19 II.

$C_{19}H_7N_3$. Anilide of *p*-aldehydohydrazobenzene. *Alway*..... 45
$C_{19}H_{15}N_3$. Benzeneazobenzylideneaniline. *Alway*..... 47
$C_{19}H_{16}N_4$. Hydrazone of benzeneazobenzaldehyde. *Alway*..... 47

19 III.

$C_{19}H_{22}O_4N_2$. Ethyl dianilinomalonate. *Curtiss*..... 325

C_{20}-GROUP.

$C_{20}H_{19}N_3$. Diphenyl-*m*-tolylguanidine. *Alway* and *Viele*. 296

20 III.

$C_{20}H_{16}O_2N_4$. Hydrazone of the *N*-*p*-formylphenyl ether of *p*-nitrobenzaldoxime. *Alway* 44

$C_{20}H_{20}O_3N_4$. Diphenyl-*m*- and *p*-tolylguanidine nitrate. *Alway*, *Vail*, and *Viele* 164, 297

$C_{20}H_{20}N_3Cl$. Diphenyl-*m*-tolylguanidine hydrochloride. *Alway* and *Viele* 297

C_{21}-GROUP.

$C_{21}H_{42}$. Liquid hydrocarbon from petroleum. *Mabery* 185

$C_{21}H_{44}$. Heneicosane. *Mabery* 185

C_{22}-GROUP.

$C_{22}H_{44}$. Liquid hydrocarbon from petroleum. *Mabery* 186

$C_{22}H_{46}$. Docosane. *Mabery* 186

22 III.

$C_{22}H_{12}O_4Br_2$. Diphenyltetramethylenebisbrommethyleneacetic acid. *Kohler*. 237

C_{23}-GROUP.

$C_{23}H_{48}$. Liquid hydrocarbon from petroleum. *Mabery* 188

C_{24}-GROUP.

$C_{24}H_{48}$. Liquid hydrocarbon from petroleum. *Mabery* 190

$C_{24}H_{50}$. Tetracosane. *Mabery* 190

24 II.

$C_{24}H_{20}O_8$. Diphenyltetramethylenebismethylenemalonic acid. *Kohler* 234

24 III.

$C_{24}H_{22}O_4Br_2$. Methyl ester of diphenyltetramethylenebisbrommethyleneacetic acid. *Kohler* 239

24 IV.

$C_{24}H_{22}O_{14}S_2K_2$. Addition-product of diphenyltetramethylenebismethylenemalonic acid and acid potassium sulphite. *Kohler* 239

C_{25}-GROUP.

$C_{25}H_{52}$. Pentacosane. *Mabery* 192

C_{26}-GROUP.

$C_{26}H_{52}$. Liquid hydrocarbon from petroleum. *Mabery* 192

26 III.

$C_{26}H_{20}ON_4$. *p*-Azoxybenzylideneaniline. *Alway* 43

$C_{26}H_{22}ON_4$. *p*-Azoxybenzaldehydehydrazone. *Alway* 42

$C_{26}H_{22}ON_4$. *m*-Azoxybenzaldehyde phenylhydrazone. *Alway* 480

26 IV.

$C_{26}H_{28}O_6N_2S$. Hydrosulphate of 4-amido-3'-methylphenyl ether. *Cook* and *Frary* 489

26 V.

$C_{26}H_{20}O_{12}N_2S_2Ba$. Barium salt of the sulphonic acid of 4-nitro-3'-methylphenyl ether. *Cook* and *Frary* 488
Also the copper and strontium salts.

C_{27}-GROUP.

$C_{27}H_{56}$. Liquid hydrocarbon from petroleum. *Mabery* 193

C_{28}-GROUP.

$C_{28}H_{54}$. Liquid hydrocarbon from petroleum. *Mabery*..... 195
$C_{28}H_{58}$. Octocosane. *Mabery*..... 195

28 III.

$C_{28}H_{30}O_8Cl_2$. Addition-product of diphenyltetramethylenebismethylenemalonic acid and hydrochloric acid. *Kohler*..... 236

C_{30}-GROUP.

$C_{30}H_{38}O_{16}N_{10}$. Di-*p*-nitrosodimethylanilineethylene picrate. *Torrey*..... 118

C_{32}-GROUP.

$C_{32}H_{27}N_5$. Pentaphenyldiguanide. *Atway* and *Viele*..... 293

C_{33}-GROUP.

$C_{33}H_{29}N_5$. Tetraphenyl-*m*- and *p*-tolyldiguanide. *Atway* and *Viele*..... 294

33 III.

$C_{33}H_{30}N_5Cl$. Tetraphenyl-*m*-tolyldiguanide hydrochloride. *Atway* and *Viele*. 295

C_{40}-GROUP.

$C_{40}H_{40}N_6Cl_6Pt$. Diphenyl-*m*-tolylguanidine chlorplatinate. *Atway* and *Viele*. 297

C_{66}-GROUP.

$C_{66}H_{60}N_{10}Cl_6Pt$. Tetraphenyl-*m*-tolyldiguanide chlorplatinate. *Atway* and Viele..... 295